

Fig. 1

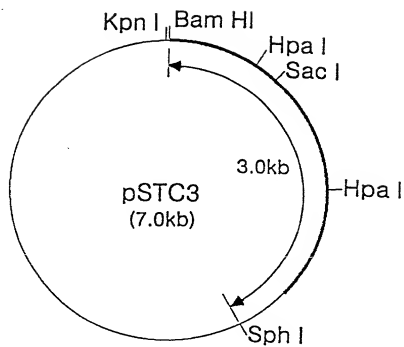


Fig. 2

PFUL	10	20	30	40	50
TCES	MNKKGLATLF	IATMLLSVVP	VHFVSAETPP	VSSSENTTSI	LPNOQVVTKE
subtilisin		MKRLGAVV	LALVLVGLLA	GTALAAPVKP	VRNNAVQOK
					MRGKKVWISL
PFUL	60	70	80	90	100
TCES	VSOAALNAIN	KGQPNKVLII	KTEGKLEEA	KTELEKLGAE	ILDENRVLNM
subtilisin		NYGLLTPELF	KKVORMNMQ	EVDIVIMFGS	YGDRDRAVKV
		LFALALIFTM	AFGSTSSAQ	AGKSNGEKKY	IVGFKQTMST
					MSAAKKKDYI
PFUL	110	120	130	140	150
TCES	LLVKIKPEKV	KELNYISLE	KAMLNREYKL	SPPIVEKDVK	TKEPSLEPKM
subtilisin		SYKIIIPAVV	KIKARDLLLI	AGMIDTGYFG	NTRVSGIKFI
		SEKGGKVQKQ	PKYVDRAASAT	LNEKAVKELK	KDPSVAYVEE
					DHVAHAYAQS
PFUL	160	170	180	190	200
TCES	YNSTWVINAL	QFIOEFGYDC	SGVVAVLDT	GNDPNHEFLS	ITPDGRRKII
subtilisin		ATSVSQIGAD	TWNLSGYDC	SGVVAVLVDI	GIDANHEDLK
		VPGVVSQIKA	PALHSQGYTC	SNMKVAVTDS	GILSSHEPDLK
					VAGGASMPVS
PFUL	210	220	230	240	250
TCES	EWKDFTEBGF	VDTSPFSFKV	VNGTLIINTT	FQVASGLTLN	ESTGLMEYVV
subtilisin		NGRSTPYDDQ	-----	-----	-----
		ETNPFQDNN-	-----	-----	-----
PFUL	260	270	280	290	300
TCES	KTVYVSNTTI	GNITSANGIY	HFGLLPERYF	DLNFDGQED	FYPVLLVNST
subtilisin		-----	-----	-----	-----

Fig. 3

PFUL	310	320	330	340	350
TCES	GNGYDIAYVD	TDLDYDFTDE	VFLGQNVTY	DVAFSYYG	PLNVLAELD
subtilisin	-----	-----	-----	-----	-----
PFUL	360	370	380	390	400
TCES	PNGEYAVFGW	DGHCHGTHVA	GHWAGYDSNN	DANDWLSMYS	GEWEVFSRLY
subtilisin	-----	-----	-----	-----	-----
PFUL	410	420	430	440	450
TCES	GWDYTNVTTD	TVQGVAPGQ	IMELRVLRS	GRGSMMDLE	GNTYAATHGA
subtilisin	-----	-----	-----	-----	-----
PFUL	460	470	480	490	500
TCES	---DVIIMS	LGGNAPYLDC	TDPESEVADE	LTEKYGVVEV	TAAGNEGPGI
subtilisin	-----	-----	-----	-----	-----
PFUL	510	520	530	540	550
TCES	N--INGSPGV	ATKALTVGAA	AVPINVGIVY	SQLGYPDIY	GFYFFPAYTN
subtilisin	-----	-----	-----	-----	-----
PFUL	560	570	580	590	600
TCES	VRIABSSRC	PRIDGELKEN	WVAPGKGIVS	SLFMMIGGAD	F-----MS
subtilisin	-----	-----	-----	-----	-----

Fig. 4

PFUL	610	620	630	640	650
TCES	subtilisin	GTSMATPHVS	GVAALISGA	I I K K V T S S G A	T M E E G P Y T G
		GTSMATPHVS	GVAALITQAH	PSMTDPKVKIT	----ALIEPA
		GTSMATPHVA	GAAALISKA	BNMTQVRS	----SLENTT
					AKT-GPS---
PFUL	660	670	680	690	700
TCES	subtilisin	QKYTELDOGH	GLMVAKSWE	ILKALNGTTL	PIVDHWADKS
		-----IAYGA	GLMVAKAIK	YDDYAKLITFT	YSDFAEYLGV
		-----FYGK	GLMVAQAQAQ	*	HTFDVSGATF
PFUL	710	720	730	740	750
TCES		DVIRGLYARN	SIPDIVEMHI	KYVGTEYRT	FEIYATEPMI
		VTATLYWDG	SSDIDLVD	ENGNEVDYSY	TAYVGFEKVG
					YNNPTAGTWT
PFUL	760	770	780	790	800
TCES		ENNTFEVLV	KYDVEGLEPG	LYVGRILIID	PTTPVIEDEI
		VKVSYSYGAA	NYQDVVSDG	SLSQSGGNP	NPNNPNPTP
					TTDTQTFTGS
PFUL	810	820	830	840	850
TCES		TPENNYTLW	YDINGPEMVT	HHFFTVPEGV	DVLYAMTYW
		VNDYWDTSPT	FTMNVNSGAT	KITGLITFDT	SYNDLDLYLY
					DNGNLVDRS
PFUL	860	870	880	890	900
TCES		FVFPYQLDYL	PAAVSNMPG	NWELVMTGFN	FAPLYESGFL
		TSSNSYEHVE	YANPAPGTWT	FLVYAIRTYG	WADYQLKAVV
					YYG*
PFUL	910	920	930	940	950
		SVWYINRYL	DTNTEFSIEF	NITNIYAPIN	ATLIPIGLGT
					YNASVESVGD

Fig. 5

PFUL	960	970	980	990	1000
	GEFFIKIEV	PEGTAELKIR	IGNPSVPNSD	LDLYLYDSKG	NLVALDGNPT
PFUL	1010	1020	1030	1040	1050
	AEEVVVEYP	KPGVYSIVH	GYSVRDENGN	PTTTTFDLVV	QMTLDNGNIK
PFUL	1060	1070	1080	1090	1100
	LDKDSIIILGS	NESVVVTANI	TIDRDHPTGV	YSGIIIEIRDN	EVYQDNTISI
PFUL	1110	1120	1130	1140	1150
	AKIPTITLVID	KADFAVGLTP	AEGVLGEARN	YTLIVKHALT	LEPVENATVI
PFUL	1160	1170	1180	1190	1200
	IGNTYTLTDE	NGTVTFTYAP	TKLGSDEITV	IVKKENFNTL	EKTFFQITVSE
PFUL	1210	1220	1230	1240	1250
	PEITEEDINE	PKLAMSSPEA	NATIVSVEME	SEGGVKKTVT	VEITTINGTAN
PFUL	1260	1270	1280	1290	1300
	ETATIVPVP	KKAENIEVSG	DHVISYSTEE	GEYAKYVIIT	VKFASPVTVT
PFUL	1310	1320	1330	1340	1350
	VTVTIYAGPR	VSILTLNFLG	YSWVRLYQK	FDELYQKALE	LGVDNETLAL
PFUL	1360	1370	1380	1390	1400
	ALSYHEKAKE	YYEKALELSE	GNIIQYLGDI	RLLPPLRQAY	INEMKAVKIL
PFUL	1410				
	EKAIELEGE	E*			

Fig. 6

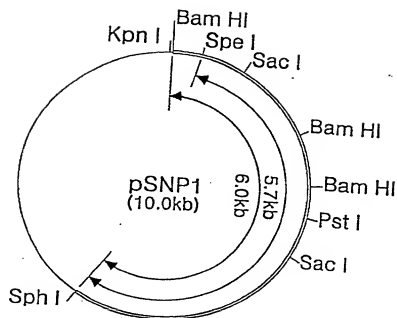


Fig. 7

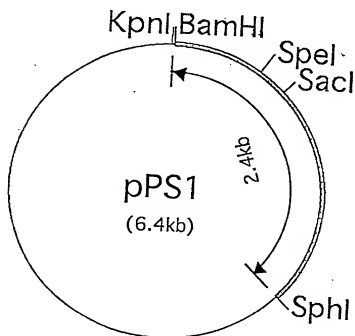


Fig. 8

